

CLAIMS

1. (cancel, without prejudice)
2. (cancel, without prejudice)
3. (cancel, without prejudice)
4. (cancel, without prejudice)
5. (cancel, without prejudice)

6. **(newly added)** The torque measuring device for hydraulic installer for earth anchor, including a torque measuring housing, means provided upon the housing for connecting the high supply pressure and low hydraulic pressure return lines to the installer, first and second transducers, each cooperating with a solid-state, strain-gauge sensor, for determining the hydraulic fluid pressure generated in the supply pressure and return lines, respectively, during operation of the device, and for converting the determined pressure to an electric signal, an electronic read-out device electrically connected with the torque measuring device, to provide for a calculation and read-out for display of the measured torque, said torque being determined through signal differencing means to provide for the determined torque between the fluid supply pressure line and the fluid return lines, and for furnishing an analog determination of the torque generated by the hydraulic installer as sensed and calibrated to furnish an accurate torque read-out in foot pounds of the amount of torque being directly applied by the installer when driving an earth anchor into the ground, and said torque measuring device including a toggle switch operatively associate between the torque measuring device and the read-out display, supply electrical means operatively associated with each connection of the double throw switch to provide for furnishing electrical energy first to the torque measuring device and then to the read-out display, respectively, said toggle switch providing for read-out of the calculated high and low pressure measurements, said torque measuring device including said first transducer that senses and measures the high pressure generated in the hydraulic supply fluid source, and said low pressure transducer provided for a read-out of the low fluid pressure generated in

the hydraulic pressure return line, means for converting said high and low pressure determinations to electrical signals, means for providing a determination of the signal difference between the high and low pressures detected, said means comprising said signal differencing means, said signal differencing means includes a potentiometer for providing for calibration of the device to zero when the measurements of the detected pressures are equal, and the read-out display provided upon the torque measuring device and furnishing, when the toggle switch is set to its second position, for furnishing an analog read-out in foot-pounds of the amount of torque being directly applied by the installer when driving the earth anchor into the ground.

7. **(newly added)** The torque measuring device of claim 6 and including separate battery means operatively associated with each throw of the toggle switch in the electrical circuitry of the device to provide the levels of voltage necessary for operation of the sensors, transducers, and potentiometer during the processing of the generated signal, when the toggle switch is in the first position, and to provide a read-out in foot-pounds of the amount of generated torque, when the toggle switch is shifted to its second position.